

THANK YOU FOR PURCHASING A JEFA TECH REPEATER XR!

How the JEFA TECH REPEATER XR System Works

The JEFA Tech Repeater XR consists of two main components:

- PICO Outdoor WiFi Receiver – this is the slim white device with white antenna. It receives the signal from the source WiFi. The PICO should be placed outside in a vertical position with the antenna pointing straight up. Place it where it has a clear line of sight to the source WiFi.
- AIRGATEWAY Indoor Access Point – this is the black device with black antenna. It should be placed inside in a convenient location. It broadcasts a private WiFi signal that you will connect your devices to. You can connect any WiFi device to the AIRGATEWAY including laptops, tablets, printers, gaming consoles, or video streaming devices.

IMPORTANT:

DO NOT PRESS RESET BUTTONS ON ANY OF THE EQUIPMENT
Doing so will put the system in a default state that will require technical support to fix.

ABOUT CONFIGURING YOUR DEVICES:

The PICO (outside antenna) and AIRGATEWAY (indoor access point) are configured independently of each other. The following IP addresses are associated with each of the devices:

PICO - outside antenna / WiFi receiver – used for scanning for the WiFi network to repeat:
<http://192.168.123.1>

AIRGATEWAY – indoor access point – used for broadcasting your private WiFi network:
<http://192.168.123.2>

Their interfaces look almost identical so it is important to keep track of which device you are configuring. 99% of the time you will be using <http://192.168.123.1> only

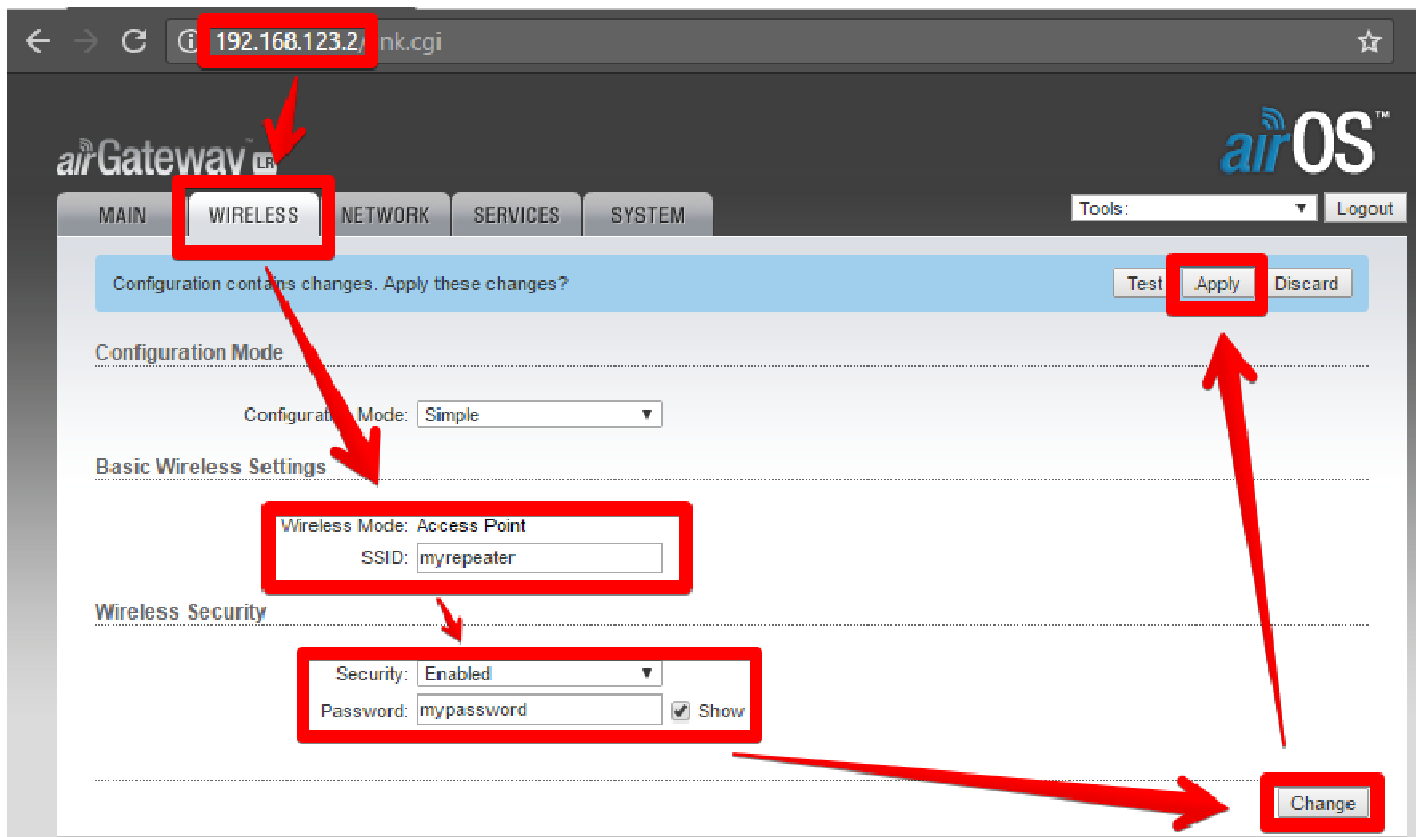
INSTALLATION

1. The PICO (slim white box with antenna) is a weatherproof unit and is designed to be outdoors. It can remain outdoors at all times. Remove the cover from the bottom of the PICO and attach one end of your black Shielded Cat5e cable into the jack. Make sure it clicks into place. Replace the cover. It may be a tight fit. Mount the PICO so that the antenna is pointing straight up and above any obstacles that may block the path to the source WiFi.
2. The AIRGATEWAY (black box) is an indoor unit and should be placed in a convenient location to provide a WiFi signal to your devices. It broadcasts your private WiFi signal. Attach the black rubber duck antenna to the AIRGATEWAY to provide maximum coverage. The black rubber duck should ideally be vertical, but will still function if it is not. You can use the included wall mount to attach the unit to a wall or other solid surface if desired.
3. Route the black Shielded Cat5e inside to where you will have your AIRGATEWAY. **If you have to pull the connector and cable through a tight opening, tape over the connector to protect it.** Be careful not to pull too hard on the connector or you may damage it. Instead of pulling on the connector, wrap a pull string and tape around and 6 to 12 inches down the cable so that you are pulling the cable, and not pulling the connector.
4. Connect the black shielded Cat5e cable to the port marked **POE** on the AIRGATEWAY.
5. Connect power to the AIRGATEWAY to power using the supplied AC power cord. This single power connection will power both the AIRGATEWAY and PICO.

FIRST TIME SETUP: SECURING YOUR REPEATER'S PRIVATE WIFI NETWORK

Your private WiFi network is set by default to “jefatech-repeater” and does not require a password. You should change this name to something meaningful for you and give it a password to keep others from using your repeater without your permission. This is a one-time setup.

1. Connect one of your devices to the WiFi network named “jefatech-repeater”
2. Using your Web Browser, go to the address: <http://192.168.123.2>
3. Log in using the username “admin” and password “admin”
4. Click on the “Wireless” Tab and change the “SSID” to a name of your choice
5. If you would like a password for your private WiFi network, under “Wireless Security” change the Security to “Enabled” and enter your password you would like to use.
6. Click the “Change” button at the bottom right of the page, then click “Apply”



7. This completes the one-time setup. You should close your web browser.
8. Write down what you have named your repeater and its password below for future reference

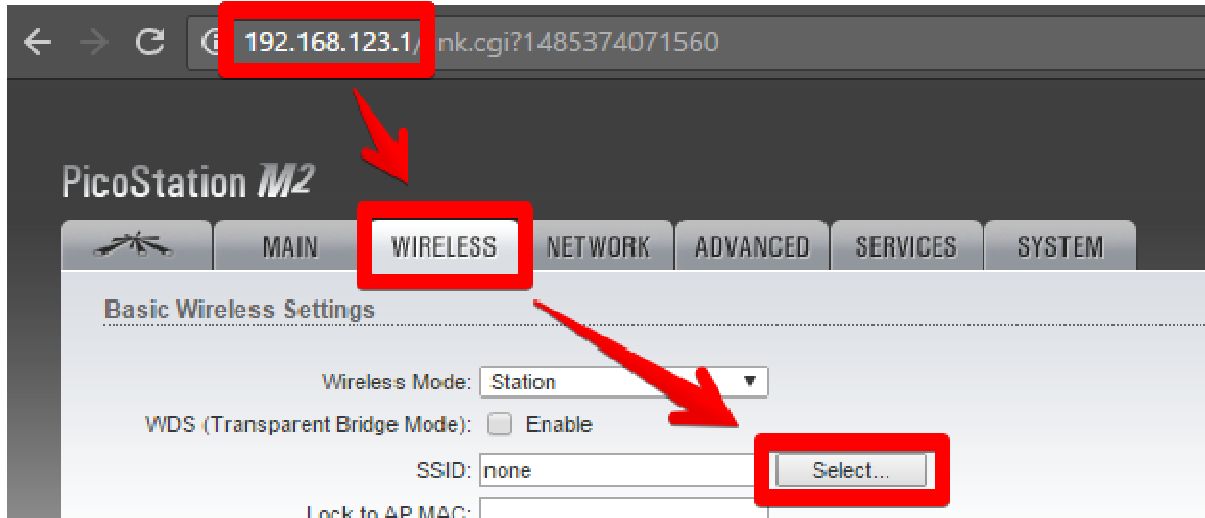
SSID: _____

Password: _____

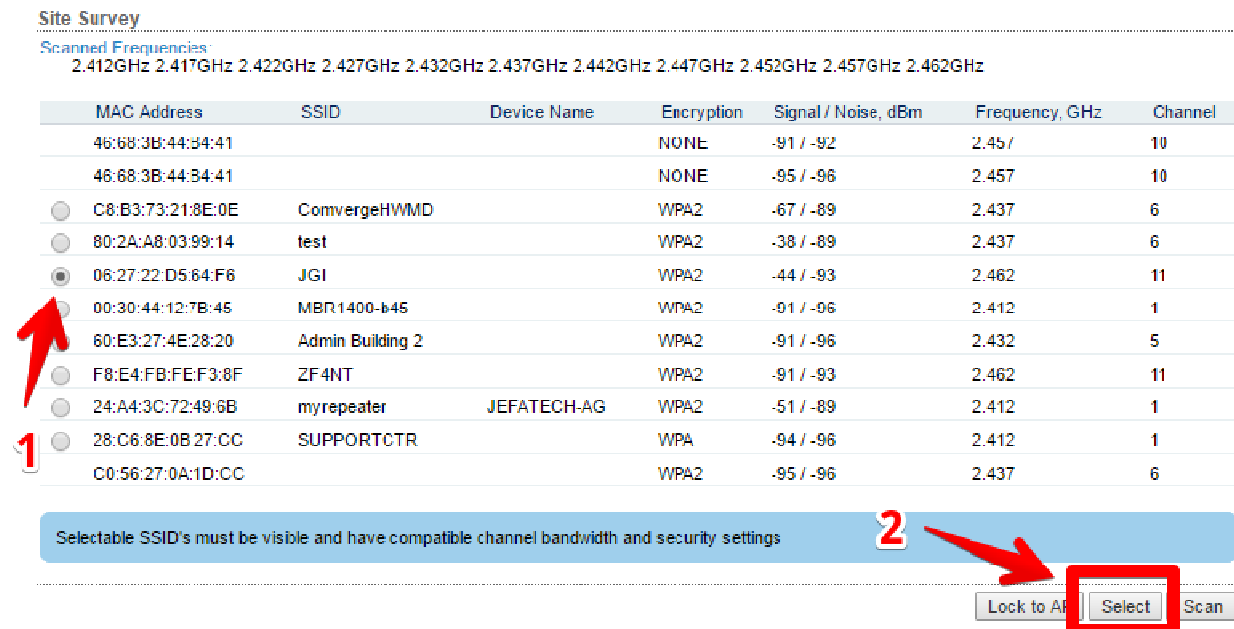
Scanning and Choosing a WiFi Network to Repeat

In order to connect to the Internet, you must find and connect to a WiFi network that can provide you with Internet access. You will complete these steps each time you arrive at a new location and need to connect to a new WiFi source. Connect one of your devices to the WiFi network named “jefatech-repeater”

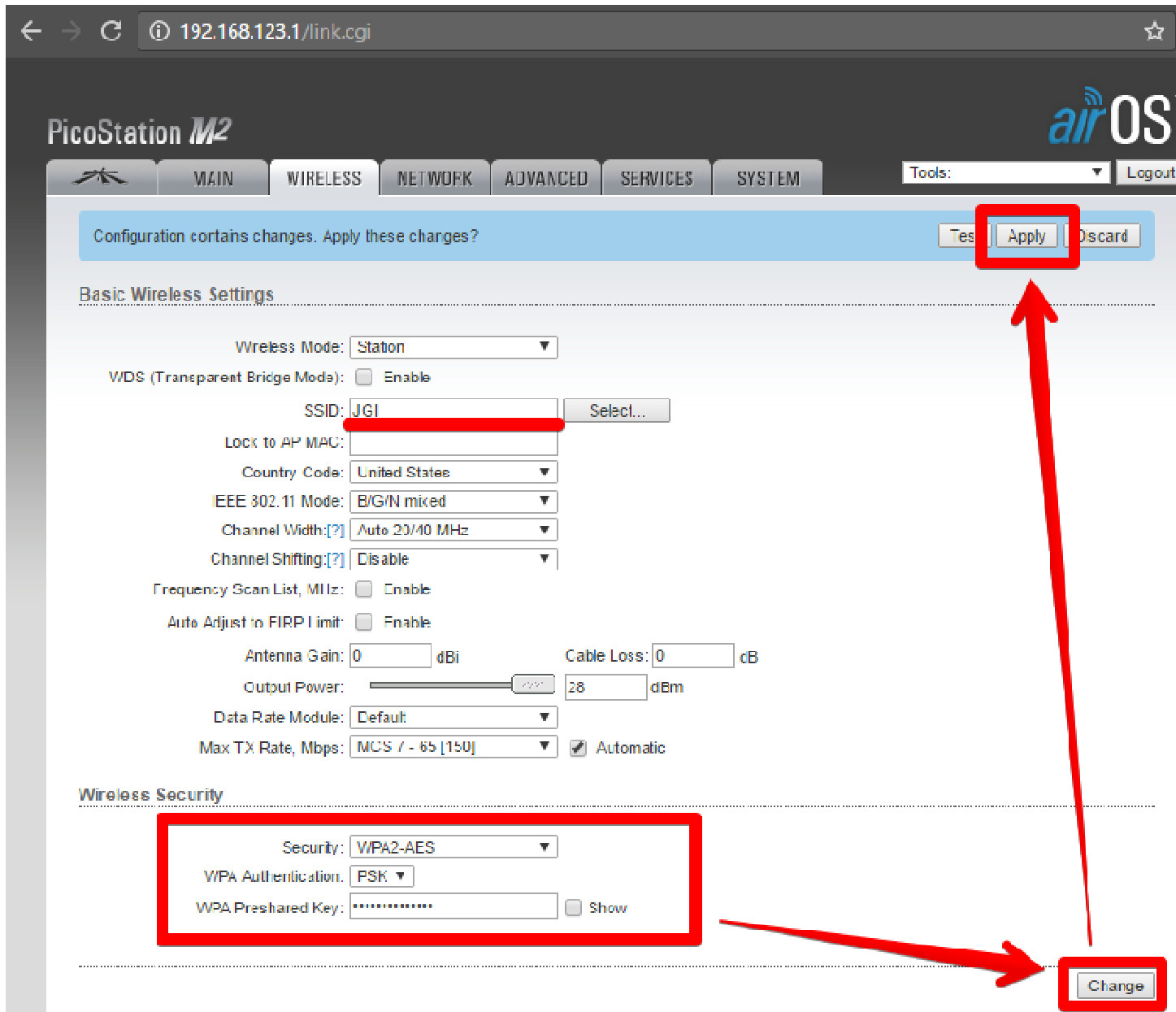
1. Using your Web Browser, go to the address: <http://192.168.123.1>
2. Log in using the username “admin” and password “admin”
3. Click on the “Wireless” Tab
4. Next to SSID, click the “Select...” button



5. A popup window will appear which shows the WiFi signals in your area that are available. Choose the source WiFi network you want and click the Select button.



- You will be returned to the “Wireless” tab and the SSID of the network you selected will be filled in. If the source WiFi network requires a password, you must enter the password for the network in the “Preshared Key” box under Wireless Security. If there is no box to enter a password, then the network is open and does not require a password.



- Click the “Change” button at the bottom right of the page, then click “Apply”.
- Wait 30 seconds for the system to attempt the connection. Don’t rush this! Please wait.
- Click “Main” tab and you will see the signal strength of the connection. If you have a colored signal bar, you have a good signal.
- At this point you should be able to get online. You can log out of the PICO by clicking the “Logout” button at the top right. Now try to go to your favorite website to confirm you are online. Connect your other devices to your private WiFi network and they will be online too.

TROUBLESHOOTING AND TECHNICAL INFORMATION

On the main tab, my signal strength bar lights up, then disappears, then lights up again and the cycle repeats. I can't get online. What's wrong?

This is the PICO resetting and trying over and over to connect to the source network, but the connection is being rejected. Double check that you have entered the correct password for the source WiFi on the Wireless tab under Wireless Security.

How do I read signal strength when doing a scan?

The Signal/Noise column indicates the strength of the source WiFi signal. A lower number is better (ignoring the – sign). The difference between Signal and Noise will need to be greater than 10 to be usable. In the example on page 4, the “JGI” network is -44/-93 which is a difference of 49 so it is very strong. To compare, the example “ZF4NT” network is -91/-93, a difference of 2. This is extremely weak and unusable.

Wow, so many settings, knobs, switches and buttons in the interface. What do they do?!

See all of those other settings? Don't touch them. Please. Seriously. Changing things other than what we have outlined in this manual will lead you into a world of frustration. Trust us. All of the settings are already optimized.

What IP address have I received from the source WiFi network?

Click on the Main Tab. Under the “Monitor” heading, click DHCP Client. You will see the IP Address given to you from the source network. If you see “Status: Not connected” then you are not connected to a source WiFi network.

What do the color lights mean on the PICO (outdoor unit)?

There are 6 lights on the PICO. The bottom is power. When it is lit, it means it is getting power from the indoor unit. The next up is Ethernet link. When it is lit, it means the cabling is good to the indoor unit. It may flash randomly to show traffic is flowing. The next four lights are signal strength to the source WiFi that you have selected. The more lights that are lit, the stronger the signal. All of the lights are fixed colors. They do not change color. They are either on or off.

None of the lights are lit on my PICO (outdoor unit). What's wrong?

Check that your cable is connected to the port marked **POE** on your indoor unit

TECHNICAL SUPPORT

We are here to help and want nothing more than to get you up and running.

Call us at 888-467-2258 or e-mail support@jefatech.com